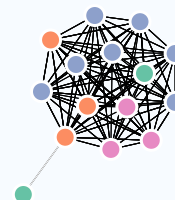


# ALBERT FRADERA SOLA

I consider myself as a multi-task and open-minded person. I enjoy having excellent relationship with my colleagues and I can easily adapt to different and new projects. I am very committed to my work and I always try to give the maximum performance in order to achieve the best results.



## EDUCATION

- Current | 2018
- **PhD Candidate, Quantitative Proteomics**  
JGU University 📍 Mainz, Germany
    - PhD thesis: Computational approaches to mass spectrometry based quantitative proteomics
- 2017 | 2016
- **M.Sc. in Omics Data Analysis**  
University of Vic 📍 Barcelona, Spain
    - Master thesis: Development of a scoring function for finding differential expression - application to Lolium Perenne
    - Erasmus + grant fellow

## RESEARCH EXPERIENCE

- Current | 2018
- **PhD candidate**  
Butter laboratory - Institute Molecular Biology 📍 Mainz, Germany
    - PhD candidate with Dr. Falk Butter ([F.Butter@imb-mainz.de](mailto:F.Butter@imb-mainz.de))
    - Publications: 1 first-author paper (in submission), 5 co-author papers
- 2017
- **Master student**  
Narcis Fernandez-Fuentes - IBERS 📍 Aberystwyth, UK
    - MSc student with Dr. Narcs Fernandez-Fuentes ([naf4@aber.ac.uk](mailto:naf4@aber.ac.uk))
    - Publications: 1 first-author paper, 1 co-author paper

## WET LAB PROJECTS AND RELATED SKILLS

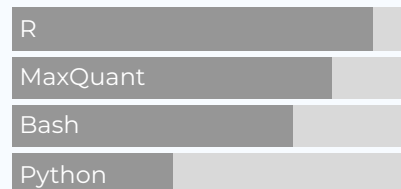
- **Immunoprecipitation of RNA binding proteins in *S. cerevisiae***
  - I was responsible for designing the experimental setup and generating the data that allowed the RNA binding protein interactome investigation.
  - Keywords: Yeast | Protein Immunoprecipitation | Experimental design
- **Mass spectrometry quantitative proteomics**
  - I used chemical labeling (DML) and label free mass spectrometry sample preparation protocols on several projects
  - Keyword: Mass spectrometry | DML | LFQ | In-gel digestion

View this CV online with links at  
<https://github.com/AFraderaSola/CV/blob/master/cv.html>

## CONTACT

✉ [A.FraderaSola@imb.de](mailto:A.FraderaSola@imb.de)  
☎ +34 680 823 978  
🐦 @AFraderaSola  
🌐 [github.com/AFraderaSola](https://github.com/AFraderaSola)  
🔗 [imb.de/research/butter](http://imb.de/research/butter)  
🆔 id: 0000-0002-4780-9312

## SOFTWARE SKILLS



## LANGUAGE SKILLS





## DRY LAB PROJECTS AND RELATED SKILLS

### ● Network-based assignment of RNA binding proteins functionality

- Function-based networks were created from quantitative proteomics data and made accessible through a shiny app.
- Keywords: Network | Functional analysis | KEGG | GO | R Shiny

### ● Temporal proteome profiling of *Xenopus* and *Leishmania* species

- Proteome differential expression was investigated at different stages
- Clustering (Self Organizing Maps) and dimensionality reduction techniques (Principal Component Analysis) were applied.
- Keywords: Proteome | Differential expression | SOM | PCA | Clustering

### ● Scoring function for RNAseq differential expression assessment

- A scoring function was developed around three RNAseq differential expression assessment R packages (DESeq2, edgeR, limma+voom)
- Keywords: NGS | RNA-Seq | Quality control | Differential expression

### ● ChIPseq characterization of a novel ATPase in *T. brucei*

- H2A.Z deposition was investigated and visualized with genome tracks
- Keywords: NGS | ChIP-Seq | Genome tracks

“I enjoy using multiomics tools to integrate different research disciplines”



Publication abstract's wordcloud



## CONFERENCES AND COURSES

### ● Conferences

- 2022 | Statistical data analysis for genome-scale biology |Flash talk
- 2021 | Network biology |Plenary talk
- 2019 | FEBS advanced course |Poster presentation

### ● Courses

- 2022 | Data visualization for scientists
- 2021 | Scientific writing
- 2020 | Convincing scientific presentations

“I nurture data visualization skills as a path towards better science communication”



## SELECTED PUBLICATIONS

### ● Genomics

- 2022 | PLoS Pathogens | <https://doi.org/10.1371/journal.ppat.1010514>
- 2021 | Nature Communications | <https://doi.org/10.1038/s41467-021-22861-2>
- 2021 | PLoS One | <https://doi.org/10.1371/journal.pone.0249636>
- 2019 | PLoS One | <https://doi.org/10.1371/journal.pone.0220518>

### ● Proteomics

- 2021 | Journal of Cell Science | <https://doi.org/10.1242/jcs.254300>
- 2020 | RNA | <https://doi.org/10.1261/rna.076281.120>

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The source code is available on [github.com/AFraderaSola/CV](https://github.com/AFraderaSola/CV).

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